

TETRA TECH, INC.

4213 State St., Suite 205 Santa Barbara, CA 93101 Telephone (805) 681-3100 FAX (805) 631-3108 Project: Vandenberg Air Force Base Log of Well No. 5-MW-3

Location: OU5, Site 5, SLC-3E, approx. 750 ft southeast of retention basin in Bear Creek Canyon tributary.

Date Started: 3/8/94 Completed: 3/9/94 4" PVC Blank Casing: 15.1 ft bgs 0 ft bgs to from Logged By: J. Rohrer 15.1 ft bgs to Checked By: R. Horwath, RG .010 25.1 ft bgs " Screened Casing: from Drilled By: A. Simones, S/G Testing Bentonite/Cement Grout: 0 ft bgs to 8 ft bgs from Drilling Equipment: CME 75, 8/10" HSA Bentonite Transition Seal: 8 ft bgs to 12.25 ft bgs from Sampling Equipment: 2" ID Split-Spoon 2/12 Sand Filter Pack: from 12.25 ft bgs to 26 ft bgs

GS Elev .: 292.8 TD: 55.5 ft bgs ft above MSL TOC Elev .: 294,96 ft above MSL Well Construction PID(ppm) Amb/Smp Sample Recovery Depth (ft bgs) Blow Counts Per 6" Graphic/ DESCRIPTION **REMARKS** USCS silty sand brown (7.5YR 4/3), fine grained, minor silt, well SM 63 1.4/3.2 Start 0920. sorted, subangular to rounded, slight iron staining, very 2 Sample V5MW3-0 loose, alluvium. sent for chemical 2 tests 83 3 Sample V5MW-3MS sent for chemical tests. 2 75 1.8/2.3 4 5 Sample V5MW3-5 sent for physical tests. 83 From 6 ft. 9 in. to 6 ft. 11 in -- silt dark brown (10YR 3/3), minor clay, well sorted, moderate iron staining, firm, dry, SM silty sand brown (7.5YR 4/3), fine grained, minor silt, well ШМ 2 100 sorted, subangular to rounded, moderate iron staining, loose, : SM 3 moist, alluvium. |M|From 8 ft. 4 in. to 8 ft. 5 in. -- silt dark brown (10YR 3/3), 4 75 1.7/3.1 SM minor clay, well sorted, moderate iron staining, firm, dry, 6 10 alluvium. 7 SM-SC Sample V5MW3-10 From 8 ft. 5 in. to 8 ft. 8 in. -- silty sand brown (10YR 5/3), 9 sent for chemical fine grained, minor silt, well sorted, subangular to rounded, tests. moderate iron staining, loose, slightly moist, alluvium. 3 100 From 8 ft. 8 in. to 8 ft. 9 in. -- silt dark brown (10YR 3/3), 2 2 minor clay, well sorted, moderate iron staining, firm, dry, lalluvium. 3 From 8 ft. 9 in. to 10.0 ft. -- silty sand brown (10YR 4/3), fine grained, trace silt, well sorted, subangular to rounded, SM 3 100 Sample V5MW3-15 moderate iron staining, medium dense, slightly moist, 3 sent for chemical alluvium tests. 4 79 .5/1.9 silty clayey sand brown (7.5YR 4/3), fine grained, minor 6 15 clay, moderately sorted, subangular to rounded, moderate 9 iron staining, low plasticity, loose, slightly moist, alluvium. Start of PVC vee-wire 10 silty sand brown (7.5YR 4/3), fine grained, moderate silt, screen. moderately sorted, subangular to rounded, moderate iron 5 0 staining, medium dense, moist to wet, alluvium. 6 9 Same, except wet. 100 6 8 Sample V5MW3-19 sent for physical tests

17.0 ft bgs 💆 Groundwater depth during drilling

18.4 ft bgs

☐ Groundwater depth after well development on:

3/22/94

TC Number: 7301-11

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Location: OU5, Site 5, SLC-3E, approx. 750 ft southeast of retention basin in Bear Creek Canyon tributary.

	FAA (805) 631-3108	basin in Bear Creek Canyon tributary.						
Depth (ft bgs)	DESCRIPTION	Graphic/ USCS	Construction of disconstruction	Blow Counts Per 6"	Percent Recovery	PID(ppm) Amb/Smp	REMARKS	
	silty sand brown (7.5YR 4/3), fine grained, moderate silt, moderately sorted, subangular to rounded, moderate staining, medium dense, wet, alluvium. clayey sand black (10YR 2/1), fine grained, minor silt, moderate staining, subangular to rounded, low plasticity,	SC		2 4 5 5 5 0 4 13 17	100	A. V		
25	medium dense, wet, alluvium. silty sand dark yellowish brown (10YR 4/4), fine grained, moderate silt, subangular to rounded, medium dense, wet, with thin gray (10YR 6/1) clay interlayers, high plasticity, firm, moist, alluvium. Fine to coarse grained at 27.5 feet.	SM		2 6 7	100	.2/3.2		
-	ine to course grained at 27.3 feet.			5 6 23 33	100		Total depth of 10" hole at 26' bgs. Bentonite plug between 26' and 3 bgs.	
-	clayey sand dark yellowish brown (10YR 4/4), fine and medium grained, moderate silt, subangular to rounded, slight iron staining, low plasticity, medium dense, very moist, with	SM-SC		4 10 29 25	100			
30	moist, alluvium, interlayered with: silty sand dark yellowish brown (10YR 4/4), fine and medium grained, moderate silt, subangular to subrounded, slight iron staining, no plasticity, very dense, moist, alluvium. clayey sand black (10YR 2/1), fine grained minor silt			15 22 29 7	100	0/6.0		
-		sc		9 12 14	100			
35	dense, moist, alluvium. silty sand light yellowish brown (10YR 6/4), fine grained, minor clay, subangular to subrounded, dense, moist	SM		6 19 22	100	0/13.1		
-	alluvium. silt pale yellow (5Y 7/3), minor clay, medium plasticity,			20 19	100	0/13.1		
	slightly moist, stiff, slight iron staining, well sorted, alluvium.	ML		5 5 7 5	100			
0	silt olive (5Y 4/4), minor clay, minor iron oxide staining, low plasticity, stiff, very moist, alluvium.			5 7 9	89 0	s	ample V5MW3-40 ent for chemical ests.	
-				2 3 5 9	100			
				0 0 4 7	00			
<u> </u>				3 1	00 0	/9.9		



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Depth (ft bgs)	DESCRIPTION	Graphic/	Well Construction	Sample Blow Counts Per 6"	Percent Recovery	PID(ppm) Amb/Smp	REMARKS
Q E	silt olive (5Y 4/4), minor clay, minor iron oxide staining,	USCS	8///8///8//		Per	PID(Amb	KEWIAKKS
	Silty sand light yellowish brown (10YR 6/4), fine grained, moderate silt, moderately sorted, subangular to subrounded, dense, possible Careaga Formation.	SM		5 9 27 21 33 40 41	100		
50	-			8 11 14 16	92		Sample V5MW3-50 sent for chemical tests.
55	Same, except very fine grained, moist.			12 15 29	100		End 1530. Drilled 8" hole to 55.5'.
60	-						Plug-back with bentonite/cement grout from 55.5' to 33'. Set bentonite chips from 33' to 26'. Construct 4" well from 26'bgs.
65							
				,			